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Conducted Researches

- 1) Investigation of the effect of mechanical properties of pellets produced from molasses and rice bran, 2017/07/24, 2019/03/11
- 2) Evaluation of the performance of a photovoltaic-thermal solar system in greenhouse using machine learning methods, 2021/04/19, 2021/04/19

Papers in International Journals

- 1) Mohammadi Iman, Tabatabaeeekoloor Reza, Motevali Ali, 2018/12/17, Effect of air recirculation and heat pump on mass transfer and energy parameters in drying of kiwifruit slices, ENERGY, 170, 149-158
- 2) Motevali Ali, Hashemi Seyed Jafar, Tabatabaeeekoloor Reza, 2019/04/25, Environmental footprint study of white rice production chain-case study: Northern of Iran, JOURNAL OF ENVIRONMENTAL MANAGEMENT, 241, 318-305
- 3) Taghizadeh Ahmmad, Motevali Ali, Ghobadian Barat, 2019/05/27, Ethanol production from date wastes: Adapted technologies, challenges, and global potential, RENEWABLE ENERGY, 230, 1095-1085
- 4) Alishah Ali, Motevali Ali, Hashemi Seyed Jafar, Tabatabaeeekoloor Reza, 2019/08/27, Multiyear Life Energy and Life Cycle Assessment of Orange Production in Iran, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 28, 14-1
- 5) Hossini Fashami Fatemeh, Motevali Ali, Nabavi-Pelesaraei Ashkan, Hashemi Seyed Jafar, Kwok-wing Chau, 2019/09/30, Energy-Life cycle assessment on applying solar technologies for greenhouse strawberry production, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, 116, 1094-109411
- 6) Chaysaz Amir Hossin, Mousavi Seyedi Seyed Reza, Motevali Ali, 2019/11/01, Effects of Different Greenhouse Coverings on Energy Parameters of a Photovoltaic-Thermal Solar System, SOLAR ENERGY, 194, 529-519
- 7) Saber Zahra, Esmaeili Mohammad Ali, Pirdashti Hemmatollah, Motevali Ali, Nabavi-Pelesaraei Ashkan, 2020/02/01, Exergoenvironmental-Life cycle cost analysis for conventional, low external input and organic systems of rice paddy production, JOURNAL OF CLEANER PRODUCTION, 1, 7-20
- 8) Kaveh Mohammad, Amiri Chayjan Reza, Taghinejad Ebrahim, Rasoli Sharabiani Vali, Motevali Ali, 2020/03/08, Evaluation of specific energy consumption and GHG emissions for different drying methods (Case study: Pistacia Atlantica), JOURNAL OF CLEANER PRODUCTION, 259, 20-1
- 9) Motevali Ali, Jafari Hassan, Zakipour Molkabadi Esmaeil, Zhu Songming, Tabatabaeeekoloor Reza, Taghizadeh Ahmmad, 2020/10/12, Comparison of environmental pollution and social cost analyses in different drying technologies, International Journal of Global Warming, 22, 29-1
- 10) Hasandust Rostami Mohammadreza, Najafi Gholamhassan, Ghobadian Barat, Motevali Ali, Che Sidik Nor Azwadi, 2020/12/03, CFD Study Based on Effect of Employing the Single-Walled Carbon Nanotube (SWCNT) and Graphene Quantum Dot (GQD) Nanoparticles and a Particular Fin Configuration on the Thermal Performance in the Shell and Tube Heat Exchanger, CFD Letters, 12, 60-37
- 11) Hasandust Rostami Mohammadreza, Najafi Gholamhassan, Motevali Ali, Che Sidik Nor Azwadi, Arif Harun Muhammad, 2020/12/24, Evaluation and Improvement of Thermal Energy of Heat Exchangers with SWCNT, GQD Nanoparticles and PCM (RT82), Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 79, 168-153

- 12) Saber Zahra, van Zelm Rosalie, Pirdashti Hemmatollah, Schipper Aafke M., Esmaili Mohammad Ali, Motevali Ali, Nabavi-Pelesaraei Ashkan, Huijbregts Mark A.J., 2021/03/01, Understanding farm-level differences in environmental impact and eco-efficiency: The case of rice production in Iran, *Sustainable Production And Consumption*, 27, 1029-1021

- 13) Teymori Omran Milad, Motevali Ali, Mousavi Seyed Seyed Reza, Montazeri Mehdi, 2021/08/01, Numerical simulation and experimental validation of a photovoltaic/thermal system: Performance comparison inside and outside greenhouse, *Sustainable Energy Technologies and Assessments*, 46, 1012-101271

- 14) Motevali Ali, Hasandust Rostami Mohammadreza, Najafi Gholamhassan, Yan Wei-Mon, 2021/11/02, Evaluation and Improvement of PCM Melting in Double Tube Heat Exchangers Using Different Combinations of Nanoparticles and PCM (The Case of Renewable Energy Systems), *Sustainability*, 13, 19-1

- 15) Hooshmandzadeh Niusha, Motevali Ali, Mousavi Seyed Seyed Reza, Biparva Pourya, 2021/11/09, Influence of single and hybrid water-based nanofluids on performance of microgrid photovoltaic/thermal system, *APPLIED ENERGY*, 304, 0-117769

- 16) Seyfi Arman, Rezaei-Asl Abbas, Motevali Ali, 2022/01/01, Comparison of the energy and pollution parameters in solar refractance window (photovoltaic-thermal), conventional refractance window, and hot air dryer, *SOLAR ENERGY*, 229, 173-162

- 17) Darzi-Naftchali Abdullah, Motevali Ali, Keykhah Mahdi, 2022/02/09, The life cycle assessment of subsurface drainage performance under rice-canola cropping system, *AGRICULTURAL WATER MANAGEMENT*, 2022, 1-13

- 18) Nasrollahi Mohsen, Motevali Ali, Banakar Ahmad, Montazeri Mehdi, 2022/11/15, Comparison of environmental impact on various desalination technologies, *DESALINATION*, 547, 0-116253

- 19) Keykhah Mahdi, Darzi-Naftchali Abdullah, Motevali Ali, Valipour Mohammad, 2022/12/06, Effect of nitrogen management on the environmental and economic sustainability of wheat production in different climates, *AGRICULTURAL WATER MANAGEMENT*, 2023, 1-16

- 20) Mohammadi Kashka Faezeh, Pirdashti Hemmatollah, Tahmasebi-Sarvestani Zeinolabedin, Motevali Ali, Nadi Mehdi, Aghaeipour Nilofar, 2023/01/02, Integrating life cycle assessment (LCA) with boundary line analysis (BLA) to reduce agro-environmental risk of crop production: a case study of soybean production in Northern Iran, *Clean Technologies and Environmental Policy*, 1, 1-1

- 21) Azizi Masoumeh, Tabatabaekoloor Reza, Motevali Ali, Mousavi Seyed Seyed Reza, 2023/01/05, Evaluation of mono and hybrid mono-fluids on energy and exergy parameters of a photovoltaic-thermal system equipped with an eccentric parabolic trough concentrator, *APPLIED THERMAL ENGINEERING*, 223, 1-18

- 22) Motevali Ali, Hooshmandzadeh Niusha, Fayyazi Ebrahim, Valipour Mohammad, Yue Jun, 2023/02/20, Environmental Impacts of Biodiesel Production Cycle from Farm to Manufactory: An Application of Sustainable Systems Engineering, *Atmosphere*, 14, 2-20

- 23) Mohammadi Kashka Faezeh, Tahmasebi-Sarvestani Zeinolabedin, Pirdashti Hemmatollah, Motevali Ali, Nadi Mehdi, Valipour Mohammad, 2023/04/06, Sustainable Systems Engineering Using Life Cycle Assessment: Application of Artificial Intelligence for Predicting Agro-Environmental Footprint, *Sustainability*, 15, 6326-6353

- 24) Darzi-Naftchali Abdullah, Motevali Ali, Laiani Ghasem, Keykhah Mahdi, Bagherian Mostafa, Nadi Mehdi, Firouzjaeian Ali Asghar, Pirdashti Hemmatollah, 2023/10/30, Optimizing cropping pattern through reducing environmental issues and improving socio-economic indicators, *ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY*, 1, 1-28

- 25) Nasrollahi Mohsen, Motevali Ali, Banakar Ahmad, Montazeri Mehdi, 2024/03/01, Comparison of the cumulative exergy demand of phase change and reverse osmosis desalination plants with environmental impacts approach, *DESALINATION*, 572, 117-117156

- 26) Marami Hadis, Tsapekos Panagiotis, Adibi Aliasghar, Birkved Morten, Alvarado-Morales Merlin, Zhang Zengshuai, Angelidaki Irini, Khademi Sahar, Motevali Ali, Khoshnevisan Benyamin, 2024/04/01, To what extent do geopolitical conditions affect the environmental sustainability of the circular economy? A comparative LCA study of lactic acid production in Denmark and Iran, *Sustainable Production and Consumption*, 47, 363-383

27) Keykhah Mahdi, Darzi-Naftchali Abdullah, Motevali Ali, Valipour Mohammad, 2024/11/27, Life cycle assessment and synergistic effects of sustainable strategies to improve environmental sustainability in arid climates, Results in Engineering, 24, 1-15

28) Darzi-Naftchali Abdullah, Berger Markus, Batoukhteh Fereshteh, Motevali Ali, 2025/01/16, Enhancing food security while reducing environmental impacts: Life cycle assessment of cultivation-irrigation systems and yield gap closure in paddy fields, Heliyon, 11, 1-17

29) Batoukhteh Fereshteh, Darzi-Naftchali Abdullah, Motevali Ali, Karandish Fatemeh, Berger Markus, 2025/05/15, Evaluating the sustainability of wheat irrigation systems: Using life cycle assessment to monitor the Water-Energy-Food-Environment Nexus, AGRICULTURAL WATER MANAGEMENT, 315, 1-17

30) Taghavi Ali, Ranjbar Nedamani Azadeh, Motevali Ali, Hashemi Seyed Jafar, 2025/06/20, Expanding the Application of Potato Starch in Diverse Food Products by Modifying Its Water Absorption, Swelling, and Solubility Through Pregelatinization–Cold Plasma Treatments, JOURNAL OF FOOD BIOCHEMISTRY, 2025, 1-15

31) Hossian gholilo Behnam, Ghobadian Barat, Motevali Ali, Kamali Maryam, Birkved Morten, Khoshnevisan Benyamin, 2025/07/01, Environmental sustainability assessment of a biorefinery platform utilizing black soldier Fly larvae for organic waste valorization, Sustainable Production and Consumption, 58, 74-46

Papers in National Journals

1) Hasandust Rostami Mohammadreza, Najafi Gholamhassan, Ghobadian Barat, Motevali Ali, 2020/10/11, Thermal performance investigation of SWCNT and graphene quantum dots nanofluids in a shell and tube heat exchanger by using fin blade tubes, Heat Transfer, 49, 4800-4783

2) Azadbakht Mohsen, Eshaghi Bahareh, Motevali Ali, Ghasemnezhad Azim, 2021/12/30, Home Browse Journal Info Guide for Authors Submit Manuscript Reviewers Contact Us Evaluating the effects of blanching and microwave pre-treatments on variations in some selected physiological factors of artichoke leaves in fluidized bed dryer, None, 17, 83-73

3) Shojapour Sabour, Motevali Ali, Samadi Seyed Hashem, Ranjbar Nedamani Azadeh, Biparva Pourya, 2025/01/01, Optimization of Energy Parameters in a Photovoltaic-thermal Solar System by Response Surface Methodology: A Case Study, iranica journal of energy and environment, 16, 145-153

4) Shojapour Sabour, Motevali Ali, Samadi Seyed Hashem, Ranjbar Nedamani Azadeh, Biparva Pourya, Anvari-Moghaddam Amjad, 2025/04/01, An artificial intelligence approach to predict energy parameters in a photovoltaic-thermal system within a greenhouse, Solar Energy, 1, 1-1

5) Masoumnia Ali, Tabatabaeekoloor Reza, Motevali Ali, 2021/09/27, Investigating the Synergistic Effect of Edible Coatings and Modified Atmosphere on the Quality Characteristics and Shelf Life of Pear, None, 52, 421-434

6) Firouzi Negar, Farahmandfar Reza, Mohammadzadeh Milani Jafar, Motevali Ali, 2022/04/02, Effect of basil and chitosan coating on drying kinetic, color, texture and antioxidant activity of apple slices: hot air oven and vacuum drying, None, 19, 393-406

7) neisari vahid, Tabatabaeekoloor Reza, Motevali Ali, 2022/04/04, Investigation of mechanical and thermal parameters of pellets blending with almond and walnut shells and sesssime pumace, None, 10, 67-76

Presented Papers in International Conferences

1) Hossini Fashami Fatemeh, Motevali Ali, Nabavi-Pelesaraei Ashkan, Hashemi Seyed Jafar, 4th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran, poster presentation, complete article, Energy indices estimation of greenhouse cucumber production using artificial neural networks, 2019/02/13, 2019/02/15

2) Hossini Fashami Fatemeh, Motevali Ali, Nabavi-Pelesaraei Ashkan, Hashemi Seyed Jafar, 4th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran, poster presentation, complete article, Life cycle assessment and cumulative exergy demand analysis of greenhouse tomato production, 2019/02/13, 2019/02/15

3) neisari vahid, Tabatabaeeekoloor Reza, Motevali Ali, 2nd International and 25th Iranian congress on Food Sciences and Technology, poster presentation, complete article, Effect of moisture content and physical features on the terminal velocity of almond cracked shell and kernel, 2018/04/25, 2018/04/26

Presented Papers in National Conferences

1) Fatabadi mojtaba, Tabatabaeeekoloor Reza, Motevali Ali, Eleventh National Congress on Biological Engineering and Mechanization of Iran, poster presentation, complete article, Investigation of the process of color changes and drying time of thin slabs of sugar beet in hot and freezing air dryers, 2018/09/03, 2018/09/05

2) Motevali Ali, Hashemi Seyed Jafar, Tabatabaeeekoloor Reza, The 18th national rice conference, poster presentation, complete article, Comparison of environmental effects of rice production in three Northern Provinces of Iran, 2018/11/19, 2018/11/20

3) Razaghi Atefeh, Moradi Hossein, Motevali Ali, Akbarpour Vahid, 11th National Conference on Medicinal Plants and Sustainable Agriculture, poster presentation, complete article, Investigation of the effect of simulation of photovoltaic panels and vermicompost culture medium on some morphological characteristics of stevia, 2020/12/01, 2020/12/01

4) Razaghi Atefeh, Moradi Hossein, Motevali Ali, Akbarpour Vahid, 11th National Conference on Medicinal Plants and Sustainable Agriculture, poster presentation, complete article, Evaluation of steviosadide, antioxidant capacity and proline stevia under the influence of shadows caused by photovoltaic panel and vermicompost, 2020/12/01, 2020/12/01

5) Darzi-Naftchali Abdullah, Motevali Ali, Keykhah Mahdi, Fifth National Congress on Irrigation and Drainage of Iran, announcer, complete article, Increasing the effectiveness of designing subsurface drainage systems using life cycle assessment index, 2021/06/23, 2021/06/24

6) valinia Seyede partov, Tabatabaeeekoloor Reza, Motevali Ali, the 14th Congress on Biosystems Engineering, poster presentation, complete article, Design and simulation of photovoltaic system for an industrial cattle breeding in Mazandaran, 2022/09/06, 2022/09/08